

## CLAIMS

What is claimed is:

- [c01] A method of providing communications services, comprising the steps of:
- transmitting signals to a destination via a first physical medium; and
  - transmitting signals to the destination via a second physical medium, the second physical medium dynamically shared amongst multiple destinations to provide additional bandwidth.
- [c02] A method according to claim 1, wherein the step of transmitting the signals to the destination comprises transmitting the signals via a twisted pair.
- [c03] A method according to claim 1, wherein the step of transmitting the signals to the destination comprises transmitting the signals via a coaxial cable.
- [c04] A method according to claim 1, wherein the step of transmitting the signals to the destination comprises transmitting the signals via a fiber optic cable.
- [c05] A method according to claim 1, wherein the step of transmitting the signals to the destination comprises transmitting the signals via at least one of i) a combination of a twisted pair and a coaxial cable, ii) a combination of a twisted pair and a fiber optic cable, and iii) a combination of a coaxial cable and a fiber optic cable.
- [c06] A method according to claim 1, further comprising the step of transmitting the signals to the destination via additional physical media, each additional physical media dynamically shared amongst the multiple destinations to provide additional bandwidth.

- [c07] A method according to claim 1, further comprising the step of logically bonding the second physical medium and the first physical medium when transmitting the signals to the destination, such that first physical medium and the second physical medium share the same session of information.
- [c08] A method according to claim 1, further comprising the step of logically bonding  $n$  physical media to the first physical medium when transmitting the signals to the destination, such that first physical medium and the  $n$  physical media share the same session of information.
- [c09] A method of providing communications services, comprising the steps of:
- transmitting Digital Subscriber Line signals to a destination via a first twisted pair; and
- transmitting Digital Subscriber Line signals to the destination via a second twisted pair, the second twisted pair shared amongst the destination and another destination, the second twisted pair providing additional bandwidth.
- [c10] A method according to claim 9, further comprising the step of logically bonding the second twisted pair and the first twisted pair when transmitting the digital subscriber signals to the destination, such that first twisted pair and the second twisted pair share the same session of information.
- [c11] A method according to claim 9, further comprising the step of connecting the second twisted pair and the first twisted pair to the destination, such that first twisted pair and the second twisted pair share the same session of information.
- [c12] A method according to claim 9, further comprising the step of transmitting the digital subscriber signals to the destination via a third twisted pair, the third twisted pair shared

amongst the destination and another destination, the third twisted pair providing additional bandwidth.

[c13] A method according to claim 9, further comprising the step of instructing a network device to logically bond the second twisted pair and the first twisted pair when transmitting the digital subscriber signals to the destination, such that first twisted pair and the second twisted pair share the same session of information.

[c14] A method according to claim 9, further comprising the step of logically bonding  $n$  twisted pairs to the first twisted pair when transmitting the signals to the destination, such that first twisted pair and the  $n$  twisted pairs share the same session of information.

[c15] A method of providing communications services, comprising the steps of:

receiving a request for communications services from a client communications device;

logically bonding a first physical medium and a second physical medium to the client communications device, the second physical medium being dynamically shared amongst multiple client communications devices to provide additional bandwidth when required; and

providing the communications services via the logically bonded first physical medium and the second physical medium.

[c16] A method of providing communications services, comprising the steps of:

transmitting signals to a destination via a first physical medium;

transmitting signals to the destination via a second physical medium, the second physical medium dedicated to provide additional bandwidth; and

transmitting signals to the destination via additional  $n$  physical media, the  $n$  physical media dedicated to provide additional bandwidth.